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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/595,363	06/15/2000	Koichi Miyachi	49924(820)	9295
21874	7590	09/23/2004	EXAMINER	
EDWARDS & ANGELL, LLP P.O. BOX 55874 BOSTON, MA 02205			NGUYEN, JIMMY H	
			ART UNIT	PAPER NUMBER
			2673	

DATE MAILED: 09/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/595,363

Applicant(s)

MIYACHI, KOICHI

Examiner

Jimmy H. Nguyen

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 14 June 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 24-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 24-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 June 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

### DETAILED ACTION

1. This Office Action is made in response to applicant's amendment filed on 6/14/2004.

Claims 24-35 are currently pending in the application. An action follows below:

#### *Claim Rejections - 35 USC § 112*

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 24-35 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding to claims above, the disclosure, when filed, does not contain sufficient information regarding to the claimed feature, "in the first display mode, the selector switch is in operation, and in the second display mode, the selector switch is not in operation", as recited in independent claim 24, lines 26-27 and lines 35-36. The disclosure, specifically fig. 2 and the corresponding description, page 32, last line, through page 33, line 7, only discloses the selector switch (34) being in operation to select either a data signal or a black display signal, in response to the switching clock signal from the display control section (20). Further, the disclosure, specifically page 48, lines 3-14, expressly teaches that **another switch**, which is replaced for the motion picture/still picture discriminating circuit 21, **may** be provided so as to allow the user to select either the image display sequence of the present invention and the conventional image display sequence. However, the disclosure, when filed, does teach expressly that how the

Art Unit: 2673

claimed switch provided in the column line driver, see lines 19-23 of claim 24, (i.e., the claimed switch corresponds to the selector switch 34 as shown in fig. 2) is placed in the second display mode (i.e., the selector 34 is placed in non-operation), and when the selector switch (34) is in the second display mode, what the output of the selector switch (34) is (i.e., what state the output of the selector switch 34 is in), what the signal is used to drive the source line (S) and how the image is displayed on the LC panel. Accordingly, the disclosure, when filed, does not fairly contain sufficient information regarding to the above underlined feature as presently claimed, so as to enable one skilled in the pertinent art to make and/or use the claimed invention.

Additionally to claim 32, the disclosure, when filed, does not contain sufficient information regarding to the claimed feature, “the voltage of the signal-use reference power supply is **changeable** between the first display mode and the second display mode”, as recited in claim 32, last 3 lines. The disclosure, specifically the original claim 20, only discloses as much as recited in claim 32. Further, the disclosure, specifically the description, page 32, lines 7-17, and page 33, line 17, through page 34, line 4, discloses that, in the first display mode, during a time period, the data signal, based on the image data and a signal-use reference voltage derived from the signal-use reference power supply (22), is outputted to the source line in the first half of the time period, and the reset signal, based on the black signal data derived from the black signal power supply (24), is outputted to the source line in the second half of the time period. However, the disclosure, when filed, does not expressly teach the above underlined feature, so as to enable one skilled in the pertinent art to make and/or use the claimed invention.

### *Response to Arguments*

Art Unit: 2673

4. Applicants' arguments, see pages 11-12 of the amendment, filed on 6/14/2004, with respect to the drawing objection under 37 CFR 1.83(a) and the claim objection, have been fully considered and are persuasive. These objections have been withdrawn.

5. Applicants' argument, see page 14, second paragraph, of the amendment filed on 6/14/2004, with respect to claim 35, is persuasive. However, since this claim depends on independent claim 24, this claim is therefore rejected for the same reason as set forth in claim 24 above.

6. Applicants' arguments, see pages 13-14 of the amendment, filed on 6/14/2004, with respect to the rejection under 35 USC 112, first paragraph, have been fully considered but they are not persuasive because as follows:

Applicants' argument, see page 13, last paragraph, is not persuasive, because as discussed in the detailed rejection above, the switch disclosed at page 48 of the present specification **is not the same** as the selector switch (34) as shown in fig. 2 or the claimed switch in lines 19-24 of claim 24. The disclosure, page 48, lines 3-8, expressly teaches "**Instead of providing** the motion picture/still picture discriminating circuit 21, **a switch** for selecting between the image display sequence of this embodiment and the conventional image display sequence **may be provided** so as to allow the user to select either of the image display sequences".

Applicants' argument, see page 14, first paragraph, is not persuasive, because the disclosure, specifically the first full paragraph of the present specification as pointed out by the Applicants, only teaches the voltage of the signal-use reference power supply changeable based on the gray levels of the image, but does not expressly teach the voltage changeable between the first display mode and the second display mode", as presently claimed.

For the above reasons, it is believed that the rejections should be sustained.

***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy H. Nguyen whose telephone number is (703) 306-5422. The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m..

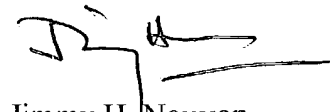
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached at (703) 305-4938. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Art Unit: 2673

system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHN  
September 22, 2004



Jimmy H. Nguyen  
Examiner  
Art Unit: 2673